

optical fiber decoration devices can be changed without fear of insufficient luminosity at the installation place. Concerning the decoration item described in the claim 18 of this invention, the decoration item, described in the above-mentioned claim 13, is a Christmas tree, a Christmas tree shape can be formed in connection of more than two units of optical fiber decoration devices, described in the above-mentioned claim 9. So that the entire Christmas tree can be brightened, a big Christmas tree can be manufactured by an easy assembly, and an economical and excellent Christmas tree can be obtained. Concerning the clothes described in the claim 19 of this invention, from decoration using optical fiber decoration devices, described in either one of the above-mentioned Claims from 1 to 13, A LED light decoration can be easily carried out to clothes with light-weight decoration items. In clothes described in the claim 20 of this invention, especially when clothes described in the above-mentioned claim 19 is a wedding dress, the optical decoration makes a wedding dress much more gorgeous, an outstanding effect of wedding dress was achieved with very light-weight and easily wearing without any resistance.

What is claimed is:

1. An optical fiber decoration device has an LED light source, the LED light source has multiple LEDs arranged at the end of the optical fiber to emit at least monochromatic or polychromatic light, and also enables the color mixing by overlapping of some of these colors.
2. An optical fiber decoration device of claim 1 wherein the end of the optical fiber and the head of LED are integrated.
3. An optical fiber decoration device of claim 1 or 2 wherein said between multiple LED light source and optical fiber bundle arrange a condenser lens.
4. An optical fiber decoration device of claim 1 to 3 wherein the luminosity of singular or multiple LEDs at least gradually change.
5. An optical fiber decoration device described in either one of claim from 1 to 4 wherein said it can create multiple colors that is added colors to mix by independently changing the luminosity of each of the multiply LEDs.
6. An optical fiber decoration device described in either one of claim from 1 to 5 wherein the luminosity of the LED controls with a microcomputer.
7. An optical fiber decoration device described in either one of the above-mentioned Claims from 1 to 6 wherein the emitting color or the luminosity can be changed by a manual switch.
8. An optical fiber decoration device described in either one of claim from 1 to 7 wherein said the luminosity is changed by detection of sound and light with a sensor.

9. An optical fiber decoration device described in either one of claim from 1 to 8 wherein it uses a unit that integrates the optical fiber decoration device and the LED power supply.

10. An optical fiber decoration device described in either one of claim from 1 to 9 wherein it uses power supply obtained from solar cells as a power supply for LED.

11. An optical fiber decoration device described in either one of claim from 1 to 10 wherein said at least a part of the optical fiber decoration device is waterproof.

12. A decoration item uses optical fiber decoration devices described in either one of the claim from 1 to 11.

13. A decoration item of claim 12 wherein said a decoration item consists of a decorated part and a support part; the support part contains a power supply and a controller; LEDs are arranged at necessary places of the decorated part; the electric power is supplied from the lead line connected by the above-mentioned controller; light is emitted from the LED light source.

14. A decoration item characterizing wherein LED light source devices consist of a LED light source and an IC board are arranged somewhere on the decoration item, and a light entrance face of the optical fiber is arranged in this LED light source device.

15. A decoration item described in either one of claim from 1 to 13 wherein said LED light source devices consisting of a LED light source and an IC board are arranged somewhere on the decoration item, and a light entrance face of the optical fiber is arranged in this LED light source device.

16. A decoration item described in the above-mentioned claim 14 or 15 is a Christmas tree.

17. A decoration item described in the above-mentioned claim 13 is a Christmas tree, the optical fiber is arranged on branches and in the vicinity of the treetop by connecting the multiple units of the optical fiber decoration device described in the above-mentioned claim 9 through connection part.

18. A decoration item described in the above-mentioned claim 13 is a Christmas tree and the shape of a Christmas tree is formed by combining and connecting more than two of the units of the optical fiber decoration devices described in the above-mentioned claim 9.

19. Clothes use an optical fiber decoration devices described in above-mentioned claim 1 to 13 to decorate.

20. Clothes described in the above-mentioned claim 19 are wedding dresses.